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McStas 1.7 - A NEW VERSION OF THE FLEXIBLE MONTE CARLO NEUTRON SCATTERING PACKAGE

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Current neutron instrumentation is both complex and expensive, and accurate simulation has become essential both for building new instruments and for using them effectively. The McStas neutron ray-trace simulation package is a versatile tool for producing such simulations, developed in collaboration between Risø National Laboratory and Institute Laue-Langevin in France. The new version (1.7) has many improvements, amongst these added supports for the popular Microsoft Windows platform. This presentation will demonstrate a selection of the new features through simulations of the IN6 beam line at Institute Laue-Langevin in France and the RITA2 beam line at the Paul Scherrer Institute in Switzerland.